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ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/723,696	11/26/2003	Andreas Menkhoff	1890-0015	7838	
	Maginot, Moor				EXAMINER	
	Chase Tower	Chase Tower			GHULAMALI, QUTBUDDIN	
	Suite 3250 111 Monument	Circle		ART UNIT	PAPER NUMBER	
	Indianapolis, IN 46204-5109			2611		
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L	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	. MAIL DATE	DELIVERY MODE		
	3 MONTHS 04/03/2007		PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Annicanto				
	Application No.	Applicant(s)				
Office Action Summary	10/723,696	MENKHOFF, ANDREAS				
Onice Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication and	Qutub Ghulamali	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
,	Responsive to communication(s) filed on <u>26 November 2003</u> . ☐ This action is FINAL . 2b)☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 19-23 is/are allowed. 6) ⊠ Claim(s) 1-18 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/26/03.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 101

- 1. 35 U.S.C. 101 reads as follows:
 - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 2. Claims 1-18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claim 1 is directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claim fails to include transformation from one physical state to another. Although, the claim, appear useful and concrete, there does not appear to be a tangible result claimed. Merely generating multiplier coefficients for a mixer by performing recursive calculation, selecting of a multiplier group consisting of a number of multipliers, and writing multiplier coefficients into a memory would not appear to be sufficient to constitute a tangible result, since the outcome of generating multiplier coefficients for a mixer by performing recursive calculation, selecting of a multiplier group consisting of a number of multipliers, and writing multiplier coefficients into a memory, has not been used in a disclosed practical application nor made available in such a manner that its

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usefulness in a disclosed practical application can be realized. As such, the subject matter of the claim is not patent eligible.

Claim 18 is similarly analyzed pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106). As such, the subject matter of the claim is not patent eligible.

Dependent claim 2-17 likewise rejected.

Specification

3. The abstract of the disclosure is objected to because of typographical error. A "Figure 6" recited at the end of the Abstract needs to be deleted.

Correction is required. See MPEP § 608.01(b).

Allowable Subject Matter

- 4. Claim 1-18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action.
- 5. Claims 19-23 allowed.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patents:

US Patent (USP 6,456,950) to El-Ghoroury et al.

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US Pub. (2003/0061251) to White.

US Pub. (2006/0153576) to Bessios.

US Patent (00RE39385E) to Brightman et al.

US Patent (5,539,357) to Rumreich.

Publication:

X. Liu et al "Recursive Calculation of the Two-Dimensional Maximum Likelihood Position Estimate for a Scintillation Camera", IEEE, Transaction on Nuclear Science, vol. 37, No 2, April 1990.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (571) 272-3014. The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QG.

March 27, 2007.

MOHAMMED OHÁYOUR SUPERVISORY PAPENT EXAMINER

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